

WHAT IS CLAIMED IS:

1. A sheet metal repair method in which a particular portion including a damaged part of a sheet metal is removed and a repair member is bonded to the sheet metal in place of the removed portion, characterized in that a portion near the end part of a repair member which is larger in area than a gap formed by removing the particular portion and/or a portion near the end part of the sheet metal to which the repair member is bonded is/are bent in accordance with a shape of the gap to form at least a first bent part, and that the repair member is bonded to the sheet metal in place of the removed portion.

2. The sheet metal repair method according to claim 1, characterized in that a second bent part is formed by bending a portion nearer to the end part of the repair member and/or a portion nearer to the end part of the sheet metal in the direction opposite to the first bent part so as to bond the portion near the end part of the repair member to the sheet metal.

3. The sheet metal repair method according to claim 2, characterized in that the first and the second bent parts are formed at one time with a sheet metal repair tool comprising a punch and a die which are shaped to fit with the first and the second bent parts.

4. The sheet metal repair method according to any one of claims 1 to 3, characterized in that a part of or a whole of joint surfaces of the repair member and the sheet metal are bonded by an adhesive agent, an adhesive agent and rivet, or a combination of an adhesive agent, rivet, and spot welding.

5. The sheet metal repair method according to any one of claims 1 to 4, characterized in that the portion near the end part of the repair member and/or the portion near the end part of the sheet metal is/are bent to remove distortion on the portion near the end part before the repair member and the sheet metal are bonded together.

6. The sheet metal repair method according to any one of claims 1 to 5, characterized in that the portion near the end part of the repair member and/or the portion near the end part of the sheet metal is/are bent so that the first bent part is curved.

7. A sheet metal repair tool for removing a particular portion including a damaged part of a sheet metal and for bonding a repair member to the sheet metal in place of the removed portion, characterized by comprising a punch and a die for forming at least a first bent part by bending the portion near the end part of the repair member and/or the portion near the end part of the sheet metal to which the repair member is bonded so that the repair member is bonded

to the sheet metal in accordance with a shape of the gap formed by removing the particular portion.

8. The sheet metal repair tool according to claim 7, characterized in that a second bent part is formed by bending a portion nearer to the end than the first bent part in the direction opposite to the first bent part simultaneously with the formation of the first bent part.

9. The sheet metal repair tool according to claim 7 or 8, characterized in that the punch or die is placed on the point of action of a lever element having the point of application of force, the fulcrum and the point of action, and that at least the first bent part is formed by bringing the punch and the die closer by the application of gripping force or pushing force to the point of action.

10. The sheet metal repair tool according to claim 8, characterized in that the punch and the die each have a first bending edge and a second bending edge, and that the first bending edges of the punch and the die form the first bent part and the second bending edges form the second bent part.

11. The sheet metal repair tool according to claim 10, characterized in that the distance between the first bending edge and the second bending edge of the punch and the distance between the first bending edge and the second

bending edge of the die are substantially same as the thickness of the repair member or the sheet metal.

12. The sheet metal repair tool according to any one of claims 7 to 11, characterized in that either the punch or the die, or both of them has/have a tapered portion in a position where the first bent part is to be formed so that the first bent part is bent curvedly by the tapered portion.

13. A sheet-like member fixing device comprising a rod like male thread and a female thread, characterized in that the male thread has a hook on its one end portion and is screwed into the female thread, that the female thread is tightened after passing the male thread through a hole of a sheet-like member, and that the sheet-like member is supported by sandwiching it between the hook and the female thread.

14. The sheet-like member fixing device according to claim 13, characterized in that the male thread is passed through the hole from its hook's side.

15. The sheet-like member fixing device according to claim 14, characterized in that the hook is substantially square to the male thread.

16. The sheet-like member fixing device according to claim 15, characterized in that the male thread is fixed in the direction substantially perpendicular to the hook while the hook is brought in close contact with the surface of the sheet-like member.

17. The sheet-like member fixing device according to claim 15 or 16, characterized in that the hook points to one direction.

18. The sheet-like member fixing device according to any one of claims 15 to 17, characterized in that the edge of the hook fixed in the direction substantially perpendicular to the male thread is beveled.

19. The sheet-like member fixing device according to any one of claims 13 to 18, characterized in that a handle is provided to the other end of the male thread.

20. The sheet-like member fixing device according to claim 19, characterized in that the handle is shaped like a ring.

21. The sheet-like member fixing device according to any one of claims 13 to 20, characterized in that the female thread can be screwed down by hand.